NPIC/TSSG/DED-1 99-68
4 March 1968

Declass Review by NGA.

MEMORANDUM FOR THE RECORD

SUBJECT: Comparison of Specifications for [redacted] PI Print Enlarger and [redacted] 3002 Viewer-Printer 25X1

25X1 REFERENCE: 1) [redacted] Technical Proposal, [redacted] 66-3557-1, NPIC #153/66 25X1
25X1 2) Contract [redacted]
3) Specification RADC-5236

1. References 1 and 2 comprise the specifications for [redacted] print 25X1
enlarger under Project #10147. This work has been under contract wit
NPIC since 27 February 1967. Reference 3 is Rome Air Development Cen er's
specifications for a similar print enlarger also developed [redacted] This 25X1
memorandum compares the specifications for the two print enlargers. his
memorandum will hereinafter call the unit now under Contract with NPI
the NPIC Enlarger and the other unit the Air Force Enlarger Since the
specifications are not worded alike, it is sometimes difficult to dis in-
guish their differences. Following are listings of significant diffe ences
between these two enlargers.

2. Specifications for the NPIC Enlarger not Called for in the A r Force Enlarger

2.1. Film chips can be viewed and printed (may be possible on Air Force Enlarger, but not specified).

2.2. Reproduction paper widths of 10 or 20 inches (Width not specified on Air Force Enlarger)

2.3. Warning light indicates when duplicating material supply is low.

3. Specifications for Air Force Enlarger not Called for in NPIC Enlarger

3.1. Military Specification, MIL-E-4158, Electronic Equipment, Ground, General Requirements For.

3.2. Military Specification, MIL-F-14072, Finishes for Ground Signal Equipment.

3.3. Military Specification, MS-265 65, Spool-Photographic, Aerial.

3.4. Military Standards, MIL-STD-108, Definitions of, and Basic Requirements for Enclosures for Electric and Electronic Equipment.

3.5. Military Standards, MIL-STD-150, Photographic Lenses.

3.6. Federal Standards, FED-STD-595, Colors.

3.7. Climatic operating conditions specified as +140°F to 110°F and RH of up to 95% at 110°F.

3.8. Fungus resistance called for.

3.9. Meantime between failure of at least 500 hours.

3.10. Mean preventative maintenance not to exceed 15 minutes

3.11. Mean corrective maintenance time not to exceed 30 minutes.

3.12. Film can be annotated while it is in the film gate.

3.13. Film can be viewed from light table or from rear projection screen.

3.14. Image can be rotated 180°.

3.15. One minute design goal, 2 minute max time for film loadings.

3.16. End of roll sensors on both spools required.

3.17. Manual back-up transport system.

3.18. Max Film temperature in film gate specified.

3.19. Optical system designed for color and black and white photography.

3.20. Acceptance test is specified.

4. Differences between the two Enlargers

4.1. NPIC-2,4,7,10 and 20X Enlargement
AF-2.5, 5, 10, 20

4.2. NPIC-20" screen
AF-22 1/2 screen

4.3. NPIC-40-400 foot-lamberts on screen.
AF-60-600 foot-lamberts

4.4. NPIC-Y transport switch/X transport manual
AF-X and Y transport by joystick

4.5. NPIC-83 3/4" high X 86 1/8" X 36"
AF-72" high X 90" X 34"

4.6. NPIC-Variation inviewing screen illumination not to exceed 20%
AF-Variation inviewing screen illumination not to exceed 40%

25X1

[redacted]
TSSG/DED/RGDB

Distribution:
Orig - Rt & File
1 - Chrono

25X1

Per [redacted] info you requested
[initials]

PI PRINT ENLARGER

25X1

		Delivery (April go-ahead)	Firm Price
3002 (Air Force)	[redacted]	7 mo.	F.P.
3004 (NPIC)		4-5 mo.	?

28 March 1968

Above info given to [redacted] verbally, 25X1
25X1 by [redacted] this AM.
[initials]

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